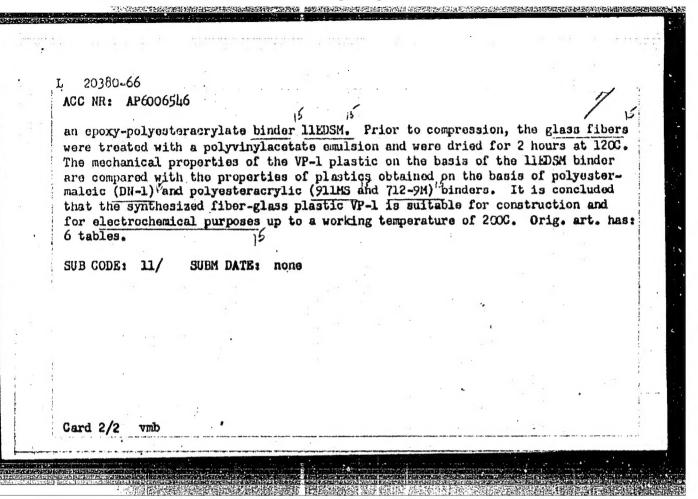
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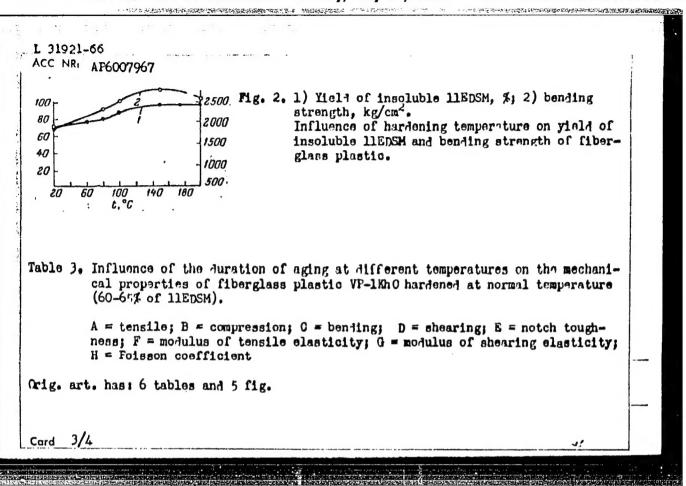
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L 03030-67 EMP(j)/EMT(m)/T LUP(c) EM/MW SOURCE CODE: UR/0191/66/000/004/0047/0050	
AUTHOR: Kravchonko, L. I.; Zherdev, Yu. V.	
ORG: none	
TITLE: Dependence of the stability of glass-fiber plastics on their microstructure	
SOURCE: Plasticheskiye massy, no. 4, 1966, 47-50	
TOPIC TAGS: fiber glass, silicate glass, porosity	
ABSTRACT: A study was made of plastics of nonoriented glass fibers prepared from alumino-silicate or alkaline glasses with PN-1, DGM, MDF-2, and TMGF-11 oinders. The microstructure of the glass-fiber plastics was determined microscopically. Alumino-silicate glass-fiber plastics had a lower porosity, were less hygroscopic, and more stable than their alkaline analogs. A removal of absorbed water by compression molding and high temperature destroyed the microstructure of alkaline glass-fiber. The flexural strength of the plastics studied changed with the increasing force of compression from 0.5 to 10 kg/cm ² . It had a maximum at 3-5 kg/cm ² compression. Glass-fiber plastic obtained in an autoclave in vacuo or under pressure had a lower porosity and higher flexural strength than plastics obtained by a conventional compression molding. Orig. art. has: 5 fig. and 2 tables.	
SUB CODE: 20,11/ SUBM DATE: none/ ORIG REF: 007/ OTH REF: 003	
UDC: 678.744.5.066: 677.521/: 678.01: 539.4	

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L 31921-66 EWT(m)/EWP(j)/T IJP(c) WW/DJ/RM ACC NB AP6007967 (A) SOURCE CODE: UR/0191/66/000/003/0028/0032		
AUTHOR: Kravehenko, L. I.; Lesnov, N. S.; Avrasin, Ya. D.		
ORG: none		
TITLE: Fiberglass plastic obtained from polyester spoxy binder by the contact method at normal temperature		
SOURCE: Plasticheskiye massy, no. 3, 1966, 28-32		
TOPIC TAGS: fiberglass, polyester plastic, cold hardening, bending strength, tensile strength, compressive stress, shear strength, elastic modulus		
ABSTRACT: Fiberglass plastic (UP-1kh0) containing 60-65% resin was obtained from the polyester epoxy resin llEDSM and benzoyl peroxide-dimethyl aniline - Co linoleate system at normal temperature and ≈0.5 kg/cm² pressure. The material was compressed at 3 kg/cm² in vacuo for 24 hr. The plastic obtained was hardened at 20-200C. Increase of the hardening temperature from 20 to 150C increased the yield of insoluble llEDSM from 70 to 95% and the bending strength from 1860 to 2800 kg/cm² (Fig. 1). At 150C, the strength of the hardened plastic was highest when hardened for 12 hr. Folymerization of llEDSM with isopropylbenzene hydroperoxide-Co linoleate or benzoyl peroxide-dimethyl aniline systems gave fiberglass plastics with inferior physical propersites. The properties of VP-1khQ plastic, affected by the time and temperatures of		
Card 1/4 UDC: 678.674.06:677.521		
		1-215

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Table 1. Effect of water, fuels, and MS oil/on the cold-hardened fiberglass plastic VF-1Kh0	Me Diu M		30 days 3.2 3.0-3.5 - 0,2	24hr 0,30 0,25-0,40 0,01 0,002-0,02 0,1 0,07-0,13	30 days 1,35 1,3-1,45 0,2 0,12-0,25 0,2 0,12-0,28
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00 °C-200 4 (/acn=100 °C)	1210 965—1420	2055 1820—2475	1105 1085—1140	85 65—110	90 85—130	_	- :	-
50 °C-200 « (/ _{ncn} =150 °C)	1130 995—1295	2265 1970—2445	855 810—960	65 55—85	90 80—110	50600 45200—58800	_	-]
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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826230

OZOLIN, Petr Karlovich; KRAVCHENKO, Lyubov' Kononovna; KRIVOROSCVA,
N.A., red.

[Cultivation of roses in Uzbekistan] Kul'tura roz v Uzbekistane. Tashkent, "Uzbekistan," 1965. 47 p.

(MIRA 18:12)

KRAVCHENKO, L.K.

Phenology of wild species of the genus Vitis L. in Tashkent. Uzb. biol. zhur. no.3:27-34 *60. (MIRA 13:7)

1. Botanicheskiy sad AN UzSSR. (TASHKENT---GRAPEVINES)

(PLANT INTRODUCTION)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262300

VAL'TSEV, V.K.; ARTAMONOVA, S.M.; DIDORA, N.F.; KRAYCHENKO, L. Kh.

Precipitation of elements from molten salts. Report No.1: Precipitation of certain elements from molten ammonium nitrate.

Izv.Sib. otd. ANSSR no.4:38-42 '61. (MIRA 14:6)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya ANSSR, Novosibirsk.

(Ammonium nitrate)

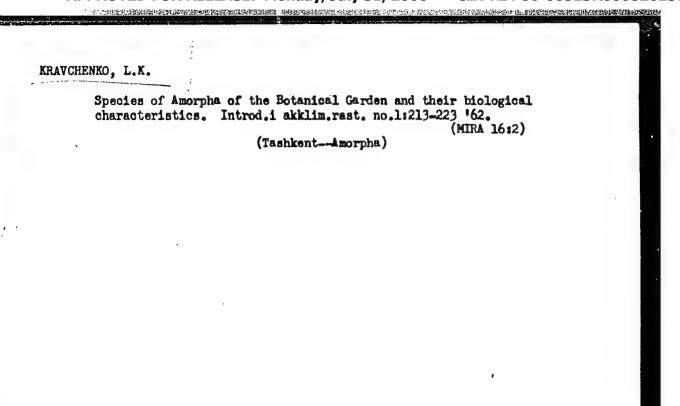
(Precipitation (Chemistry))

VAL'TSEV, V.I.; ARTAMONOVA, S.M.; KRAVCHENKO, L.Kh.

Precipitation of elements from molten salts. Report No.2:
Precipitation of nitrates and nitrites of the alkali metals from melts. Izv.Sib.otd.AN SSSR no.5:59-65 '61. (MIRA 14:6)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR, Novosibirsk.

(Alkali metal salts)



L 13013-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD/JG S/0289/63/000/001/0152/0154 5/

AUTHOR: Val'tsev, V. K.; Avvakumov, Ye. G.; Py*r'yev, M. F.; Kravchenko, L. Kh.

TITLE: Separation of lanthanides in ammonium nitrate with the help of zone crystallization. Part 3

SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya khimicheskikh nauk, no. 1, 1963, 152-154

TOPIC TAGS: zone crystallization, La, Hd, Er, Sm, Gd, Yt, lanthanide separation

ABSTRACT: The possibility of separating La, Nd, Er, Sm, Gd, and Yt as double sulfates from ammonium nitrate melts by zone crystallization was investigated. Separation was indicated after only 3 passes of the molten zone at 0.82 cm/hr, using ammonium sulfate as precipitant; the lanthanide double sulfates settled out in the central portion of the bar. (Ammonium oxalate was also effective as precipitant.) The lighter element is more concentrated in the latter part of the ingot; it dissolves more readily in the NH sub 4 NO sub 3 than the heavy element and passes to the end of the ingot. Optimum conditions for selective separation (selection of precipitant, length of ingot, number of passes, lanthanide concentration, etc.) remain to be worked out. Orig. art. has: 2 tables and 2 fig.

'Card 1/2 Association: Inst. of Inorganic Chemistry, Siberian Dept. AN SSSR

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S/184/59/000/006/004/006 A104/A026

AUTHORS:

Shevelkin, B.N.; Candidate of Technical Sciences, Bogoslovskiy, I.M.

and Kravchenko, L.L.; Engineers

TITLE:

On the Choice of a Method for Pressure Processing of Two-Layer 20K-X

18H12M2T (20K-Kh18N12M2T) Steels

PERIODICAL: Khimicheskoye mashinostroyeniye, 1959, No. 6, pp. 40 - 42

TEXT: The article deals with new structural steels. The double-coated steel comisting of a carbon-steel primer with a O8X13 (O8Kh13) and 1X18H9T (1Kh18 N9T) acid-proof steel coating used in chemical and petroleum engineering shows inadequate corrosion resistance. For heavy boilers the use of double-coated steel with Kh18N12M2T steel plating is recommended. Tests on pressure processing of double-coated 20K-Kh18N12M2T 35-mm steel carried out by the Leningradskiy filial NIIKh1MMASh (Leningrad Branch of the All-Union Design and Scientific Research Institute of Chemical Machinery) are described. Plastic properties tested at temperatures of 20-1,180°C are highest at normal temperatures and at 1,100-1,180°C. The adhesive strength between the primer and the coating was determined by shearing and tearing tests on a 5-ton tensiometer at 20, 700, 800, 1,000, 1,100 and

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On the Choice of a Method for Pressure Processing of Two-Layer 20K-X18H12M2T(20K-Kh18N12M2T) Steels

1,180°C. The influence of heating time on the adhesive strength between primer and coating was tested during 15, 30, 60 and 120 minutes heating time at 1,100°C and subsequent water cooling. The behavior of double-coated steel during bending and its influence on intercrystalline and general corrosion of the coating was tested under cold and hot conditions (1,000°C) on 35-mm cross-section samples. Bending was done by stamps with a radius curvature of 16, 24 and 40 mm. The 1mproving properties of heat processing on strained metal was tested by annealing at 750 - 950°C for 3 hours followed by air cooling, and tempering at 1,000°C for 25 min and subsequent air cooling (for austenitic steel alloys). Metallographic tests revealed no damage to the adhesion of 20K (20K) and Kh18N12M2T double-coated steel during bending, despite of the separation of a carbide layer of 0.03 - 01 mm at the contact line of the primary layer and the coating. Doublecoated steel can be strained either hot or cold for stamping purposes; stamping itself should be performed at 1,180 - 900°C. As the shearing and tearing strength decreases during prolonged heating prior to stamping, this should be curtailed as much as possible. The permissible bending radius in hot or cold conditions is: 3 - 3.5 a (cold) for outward bending $(T = 1,200 - 400^{\circ}C)$ and 4 - 2.5 a for inward bending. Card 2/3

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S/154/59/000/00E/004/006 A104/A026

On the Choice of a Method for Pressure Processing of Two-Layer 20 - 18 12 2 (20K -Kh18N12M2T) Steels

Three month tests proved that all samples subjected to bending, welding and various thermal processings revealed hardly any corrosion losses. There are 5 figures

Card 3/3

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S/184/60/000/005/004/021 A104/A026

AUTHORS:

Shevelkin, B.N., Candidate of Technical Sciences; Kravchenko, L.L.;

Bogoslovskiy, I.M.; - Engineers

TITLE:

Investigation of the Processability of Laminated Steel-Silver Sheets

PERIODICAL: Khimicheskoye mashinostroyeniye, 1960, No. 5, pp. 37 - 39

TEXT: A new type of silver coated steel was developed by the Giprotsvetmetobrabotka (State Designing, Planning and Scientific Research Institute for Errocessing Nonferrous Metals). The sheets consist of a "steel 10" basic layer



coated with 99.98% silver. Firm adhesion between the base metal and the coating is ensured by a special-alloy interlayer, vacuum heated prior to hot rolling. Tests were performed in the NIIKhIMMASh (All-Union Designing and Scientific Research Institute of Chemical Machinery). Figure 1 shows the structure of the base metal (1), interlayer alloy (2) and the silver coating (3).

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Investigation of the Processability of Laminated Steel-Silver Sheets

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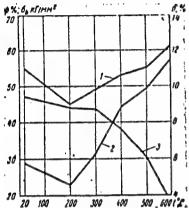


Figure 2 shows the effects of heating at 20 - 600° C, i.e., relative contraction (ϕ); relative elongation (d) and tensile strength (σ_b). Buckling tests were performed at 20 - 700° C. Elongation properties were tested on solid or welded ingots, which were cold forged into 400 and 700 mm diameter bottoms with inverted plating. Only the carbon-steel layer was welded before forging with 942A (ECh2A) electrodes, the coating was applied afterwards. To avoid damage of coatings during forging the ingot was protected with parchment paper. The porosity of ingot and bottom coating was examined by application of filter paper soaked in a solution of 10 g NaCl, 10 g gelatine and 1 g K3Fe(CN)6 in 1 1 of water. No porosity was found.

Rolling tests included two 400 and 700 mm shells. Coating damages were avoided by interlayers of thin aluminum foils or strong paper. After rolling the coating was inspected as to porosity according to the described method. The authors conclusion is: silver coated steel sheet of 5 mm or less showed satisfactory

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Investigation of the Processability of Laminated Steel-Silver Sheets

tensile strength and elasticity when subjected to buckling, elongation and rolling in cold state. Bottoms should be made from solid ingots or heat-processed welded ingots. Protective interlinings of parchment paper are necessary during pressure processing of silver-coated steel for stampings and thin aluminum foils and of strong paper for rolling. High surface cleanness of stamps and rollers are essential. Silver-coated steel is not suitable for cold or hot manual stamping. Porosity checks are indicated, any defects can be removed by dressing or welding. Thickness of welding should be checked with calipers, and the adhesion between base metal and coating by the electroacoustic method. There are 3 figures and 1 table.

Card 3/3

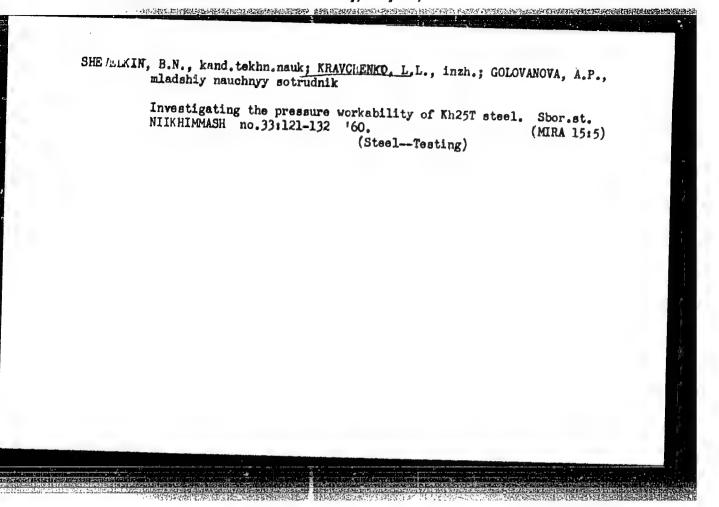
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SHEVELKIN, B.N., kand.tekhn.nauk; BOGOSLOVSKIY, I.M., inzh.; KRAVCHENKO,
L.L., inzh.

Investigating the pressure workability of steel-silver bimetallic sheets. Sbor.st. NIIKHIMMASH no.33:33-112 '60. (MIRA 15:5)

(Metalwork)



3/184/61/000/001/007/014 A104/A029

AUTHORS:

Shevelkin, B.N., Candidate of Technical Sciences, Kravchen-

ko, L.L., Golovanova, A.P., Engineers

TITLE

Investigation Into the Processibility of High-Chromium X25T

(Kh25T) Steels by Pressure

PERIODICAL: Khimicheskoye Mashinostroyeniye, 1961, No. 1, pp. 37-40

The necessity for nickel economy is stressed, followed by the TEXTdescription of the results of tests carried out by the NIIKhIMMASh on the processibility of high-chromium Kh25T steels by pressure. Changes of the mechanical properties of Kh25T steel during tests at 20-1,100°C are shown in Fig. 1. During cooling from 0 to -70°C a marked decrease of resilience accompanied by slight improvement of tensile strength was observed. Elongation tests at temperatures below zero were carried out in a thermostat installed in a breaking machine. Cooling was achieved by sublimation of solid carbon dioxide in ethyl alcohol. After elongation, bending, etc. the processed samples were heated in order to diminish the deformation force. The samples were subjected to repeated heating at temperatures of

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S/184/61/000/001/007/014 A104/A029

Investigation into the Processibility of High-Chromium χ^25T (Kh25T) Steels by Pressure

1,000 - 1,180°C for varying lengths of time. Simultaneously the effect of subsequent thermal treatment on their mechanical properties was tested at 760-780°C, followed by rapid water cooling. A number of samples subjected to single or repeated heating up to 1,180°C of various duration and cooling rates were tested for tendency to intercrystallite corrosion under the supervision of I,G. Volikova. Tests were carried out in a copper sulfate solution (120 hours), 65% boiling nitric acid (96 hours) and 55% phosphoric acid (480 hours) at 70-80°C. Bending tests were performed on samples cut lengthwise and across rolled sheets at 100 - 1,180°C; the samples were then subjected to corrosion tests according to the above method plus soaking (2 x 48 hours) in 97% boiling acetic acid. The actual degree of deformations was determined by marking circles of 30 mm in diameter on slabs before pressing and measuring the ovals formed from these circles after pressing. Hardness and expansion tests of various sections of the bottoms revealed that hardness, deformation, tensile strength and Card 2/6

S/184/61/000/001/007/014 A104/A029

Investigation Into the Processibility of High Chromium X25T (Kh25T) Steels by Pressure

yield limit increase towards the edges. The following recommendations were made: expansion and bending of Kh25T steel can be performed without heating (at t > 15°C) or with heating to 900-700°C. The heating time must not exceed 20 min. Under these conditions the fine-grained structure is preserved and satisfactory plastic properties are achieved. The bending radius should not be less than 2.5 of the metal thickness (cold) or 1.5 (heated). Parts subjected to bending and expansion under hot condition should be heat-treated at 760-78000 for 2-3 min per mm, followed by rapid water cooling. Kh25T steels showed no tendency to intercrystallite corrosion after being pressure treated either cold or heated to 900-700°C for 20 min. The high corrosion resistance of Kh25T steels in 55% phosphoric acid and 97% boiling acetic acid was established. After deformation processing (either cold or at temperatures not exceeding 900°C Kh25T steels showed high corresion resistance and did not tend to intercrystallite corresion in 65% nitric acid. Heated to above 900°C, the steel reveals a tendency to Card 3/6

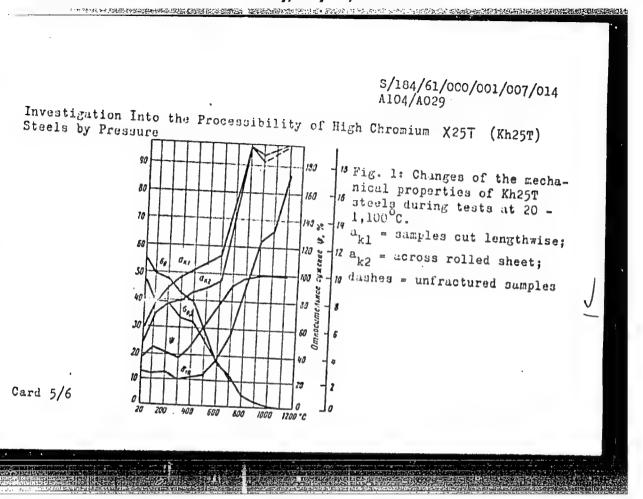
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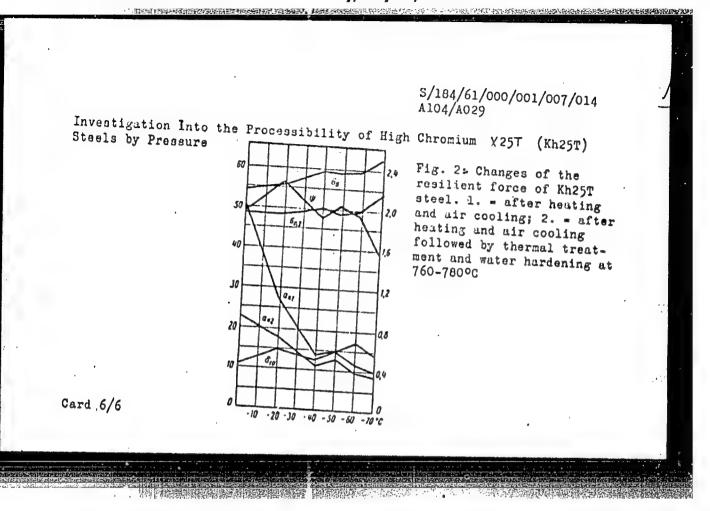
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Investigation Into the Processibility of High Chromium $\chi 25T$ (Kh25T) Steels by Pressure

intercrystallite corrosion accompanied by rapid reduction of corrosion resistance. There are 6 figures.

Card 4/6





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S/184/61/000/003/003/004 D041/D113

AUTHOR:

Shevelkin, B.N., Candidate of Technical Sciences, Kravchenko,

L.L., Golovanova, A.P., Bogoslovskiy, I.M., Engineers

TITLE

Investigations concerning the possibility of working titanium

alloys by means of pressure

PERIODICAL: Khimicheskoye mashinostroyeniye, no. 3, 1961, 33-38

TEXT: The article contains some data of the above-mentioned investigations carried out at NIIKhIMMASh to be used in the manufacture of parts for devices of the chemical machine building industry. The investigations have been carried out on BTI (VTI) alloy sheets, 1.5 to 8 mm in thickness and on OT 4 (OT 4) sheets 1.5 and 5 mm in thickness. Fig.1 shows that the stability ($\delta_{\rm B}$ and $\delta_{\rm C,2}$) of the alloys decreases without variation when heated up from 20 to 700°. A maximum decrease in a temperature range of 20-400° has been observed with samples which had been cut out transversely to the rolling direction. Impact toughness variation of VTI (6 mm thickness) and OT4 (5 mm thickness) in a temperature range of - 70 to + 1000° is shown in Fig.2. At temperatures close to 1000°, impact toughness values could not be obtained since

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S/184/61/000/003/003/004 p041/D113

Investigations concerning the possibility

the samples only buckled due to high plasticity; in Fig.2, this is shown by a dotted line. On investigating the mechanical properties of the VTl titanium sheets (12 and 25 mm thick) there was no indication of anisotropy of the mechanical properties along the length and breadth of the rolling direction. The mechanical and plastic properties of the alloys were tested under various heat conditions. VTl samples were heated in the furnace (from one to three times) up to 7500, OT4 samples up to 8000 and cooled in the air; the soaking time was changed from 20 to 160 minutes, and the samples were cooled in different media (water, air and together with the furnace). The tests have shown that triple heating with 160 minutes' soaking at temperatures below allotropic conversions deteriorates only by 5-10% the plastic properties of both alloys. A corrosion test in a 1.5% H2SO4 solution indicated that a heating of up to 8000 with short soaking (up to 30 minutes) does not change the corrosion resistance of the metal. Prolonged soaking at temperatures of 7500 deteriorates the latter property. Table 3 shows the permissible bending radii obtained from investigations with cold and hot samples. After the bending tests, corrosion tests were carried out during 100 hours under the guidance of G.L. Shvarts. The technological media contained molybdenum trisulfide, molybdenum and tungsten sulfo-

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Investigations concerning the possibility

salts, as well as hydrochloric acid and sulfide compounds. The corrosion speed of VTl did not exceed 0.015 G/m^2 hour, and of the OT4 0.06 G/m^2 hour. Shells rolled out from titanium sheet with a lengthwise welding seam can be flanged with a local heating up to 300-350°, and in case the whole shell is hot, with a general heating up to 550-750°. The largest flange diameter is determined by the following formula:

The symbols are explained in Fig. 6a. Drawing tests with titanium alloys have been carried out in die-sets by means of a 30 ton hydraulic press. As punch material C435-52 (SCh 35-52) chromium-nickel cast iron is recommended; the dies should be made of the same cast iron with steel inserts or of steel whose surface has been consolidated to a hardness of RC 56-60. The working surface of the punches and dies must have a fineness of ∇ 9, and if higher accuracy is required, the surfaces must be polished. Bottom stamping from titanium alloys was also effected. The following conclusions were drawn: 1. Bottom stamping from VT1 with a relative elongation of more than 20% can be effected in the cold state; if the press has not the necessary capacity, the punches and blank should be heated to temperatures of Card 3/8

Investigations concerning the possibility

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 $300-350^{\circ}$ or the blank should be heated to $550-750^{\circ}$. VT1 with a relative elongation of less than 20% in the cold state is not Bottom stamping from recommended. Bottom stamping from OT4 alloy should be carried out by heating the die-set and the blank to temperatures of 300-350° or by using a hot piece with temperatures of 650-8500. 2. Die-sets for stamping elliptical bottoms should have a curvature radius of (2-3) δ , and a clearance (unilateral) between die and punch of $z = (1.05 \div 1.11) \delta$. 3. Cold stamping requires XBJ -21 (KhVL-21) or 9-32 lacquers as lubricants for covering the blanks, as well as water-colloidal preparations like B-0 (V-0) or B-1 (V-1). For hot stamping it is recommended to use V-O, and V-1 or dry graphite to be sprayed on the surface. 4. The blank's edges should be evenly cut and the burr removed. 5. In order to increase the plasticity and remove the remaining inner strains, a heating to 550-600° with a soaking of 3-4 minutes per every mm of the bottom-wall thickness must be effected. 6. Corrugations and bulges can be removed by secondary stamping or by heating them up to 400-5000 and hammering with a copper hammer on the die. ing, flattening, bending and rolling tests with cold VTl pipes (diameter -Flanging, expand-26 mm, wall thickness - 1.5 mm) have been carried out. The VT1 had a stability limit of 46.6 kG/mm² and a relative elongation of 21.5%. The tests

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Investigations concerning the possbility

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gave satisfactory results. 26×1.5 mm pipes in a framework with apertures of 26.4, 26.6, and 26.8 mm have undergone rolling tests: no defects appeared on the surface and the expansion degree was 0.7-1.5% which corresponds to the HMX-105-56 (NMKh-105-56) standard. Technological tests with 25 x along the welding seam. There are 7 figures and 6 tables.

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Card 5/8

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826230

3/184/62/000/005/002/003 DO40/D113

AUTHORES:

Shevelkin, B.N., Candidate of Technical Sciences; Kravchenko, L.L.

and Golovanova, A.P., Engineers

TITLE:

Pressability of Kh17T and Kh17N2 high-chromium steels

PERTODICAL:

Khimicheskoye mashinostroyeniye, no. 5, 1962, 28-32

TEXT: The behavior of X17T (Kh17T) and X17H2 (Kh17N2) Cr steels belonging to a class containing 17-25% Cr has been studied at NIIKhIMASh in bending and extrusion, and in corrosive media after such working. The experiments were conducted so as to find substitutes for scarce acidproof Ni-Cr steel grades used in the chemical industry. Changes in the mechanical properties and corrosion resistance of bent and extruded specimens were studied at various temperatures (-70 to + 1180°C) and in boiling acids. Both steels proved applicable under certain conditions: (1) Bending with slight strain is possible at above 15°C, while more complex shaping with more strain is possible only when heating is applied. The proper heating ranges for Kh17T and Kh17N2 steels are 1000-750°C and 1150-950°C respectively. (2) Heat treatment is needed after hot extrusion;

Card 1/2

Pressability of Khl7T and

S/184/62/000/005/002/003 D040/D113

for Kh17T the proper treatment is heating to 760-780°C, holding for 3-4 min per 1 mm thickness and cooling in air; Kh17M2 has to be quenched at 1100°C, held for 3-4 min per 1 mm thickness, cooled in oil, tempered at 580°C, held for 3-4 min per 1 mm thickness, and finally cooled in air; intercrystalline corrosion appearing in kh17M2 after heating over 900°C can be eliminated by heating to 680°C, holding for 15-20 min per 1 mm thickness, and then cooling in air. The bending radii in cold bending should not be less than three thicknesses of rectal for Kh17T, and five thicknesses for Kh17M2. In hot bending, the minimum radii should be two thicknesses of metal irrespective of the type of steel. There are

Card 2/2

ACCESSION NR: AR4027677

8/0276/64/000/001/0003/0003

SOURCE: RZh. Tekhnologiya mashinostroyeniya, Abs. 1V4

AUTHOR: Shevelkin, B. N.; Kravchenko, L. L.

TITLE: A study of the pressure treatment of tantalum and miobium

CITED SOURCE: Tr. Vses. n.-i. i konstrukt. in-t khim. mashinostr., vy*p. 43

TOPIC TAGS: tantalum, niobium, tantalum pressure treatment, niobium pressure

TRANSLATION: The authors give data on changes in the mechanical properties of Ta and No upon heating from 20 to 300° and cooling from 0 to -70°, as well as technological properties upon bending, roll forming, extrusing, (tube) expanding, and pipe flanging. On the basis of the results of studies the authors suggest minimum bending radii for Ta and No, as well as temperature regimes for their treatment. 6 illustrations. I. Gendlina.

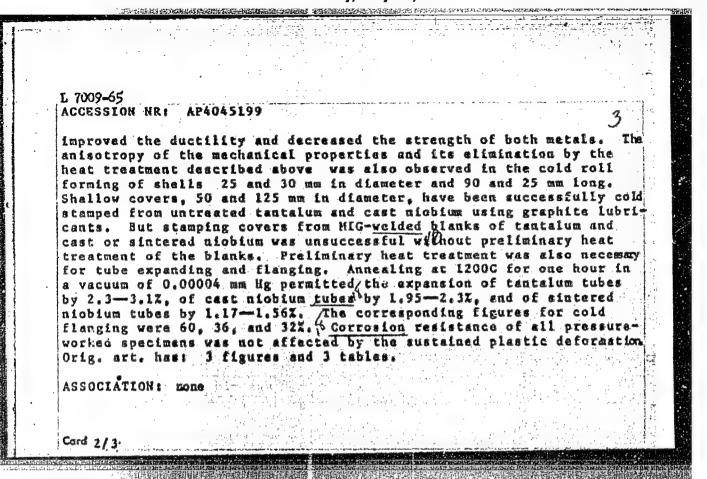
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Card 1/1

L 7009-65 EMT(m)/EPF(n)-2/EMP(k)/EMP(q)/EMP(b) $Pf-l_1/Pu-l_1$ ASD(f)/ ASD(m)-3 JD/HN/JG/WB ACCESSION NR: AP4045199 5/0314/64/000/001/0025/0027 AUTHOR: Shevelkin, B. N. (Candidate of technical sciences); Kravchenko, L. L. (Engineer) Invastigation of pressure working of tantalum and niobium SOURCE: Khimicheskoye i neftyanoye mashinostroyeniye, no. 1. 25-27 TOPIC TAGS: tantalum, miobium, tantalum sheet cold forming, miobium sheet cold forming, tentalum stamping, niobium stamping, tantalum flanging, miobium flanging, optimum heat treatment ABSTRACT: Pressure working of 99.37-pure tantalum and 98.97-pure cost and rolled niobium sheats, I mm thick, has been investigated. In preliminary tensile tests at 20, 100, 200, and 300C and particularly in cold bending tests, both tentalum and miobium in the initial condition exhibited a sharp anisotropy which, however, was greatly reduced, and in the case of cast niobium completely eliminated, by annealing at 1450-1500C for one hour in a vacuum of 0.002 mm Hg or at 1200C for one hour in a vacuum of 0.00005 mm Hg. The heat treatment also sharply Card 1/3



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L 7009-65 ACCESSION NR:	E Company	TD PRESS: 3103	ENCL: 0	0
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ASD(m)=3/ s/0314/64/000/003/0033/0034 ACCESSION NR: AP4046171 AUTHOR: Shevelkin. B. N. (Candidate of technical sciences); Kravchenko. L. TITLE: Investigation of the pressure machinability of the clad steel \$t.3-OKh23N28H3D3T SOURCE: Khimicheskoys I neftyanoye mashinostroyeniye, no. 3, 1964, 33-34 steel sheat, forrite, pearlite, ductifity, TOPIC TAGS: steel, clad steel, bending, drawing, punching, guillatine cutter, peeling, rolling / steel 3, OKh23H28H3D3T ABSTRACT: The mechanical and technological properties of 10-mm-thick sheets of clad steel (base sheet of St.3: 8 mm; cladding sheet of OKh23H28H303T: 2 mm). annealed at 9000 for 2 hours and quenched in air, were investigated at the Nilkhimmash. The microstructure of the clad steel is illustrated. The structure of steel OKh23H28H3D3T consists of austenite grains, at the boundaries of which a second phase consisting of small carbide particles is found; the base metal St.3 consists of small ferrite and partite grains. The variation in the mechanical properties of this clad steel was investigated during short-term heating and cooling. Generally, the strength and yield point decreased on heating and increased on cooling, with the opposite behavior for plasticity. The shear strength in the

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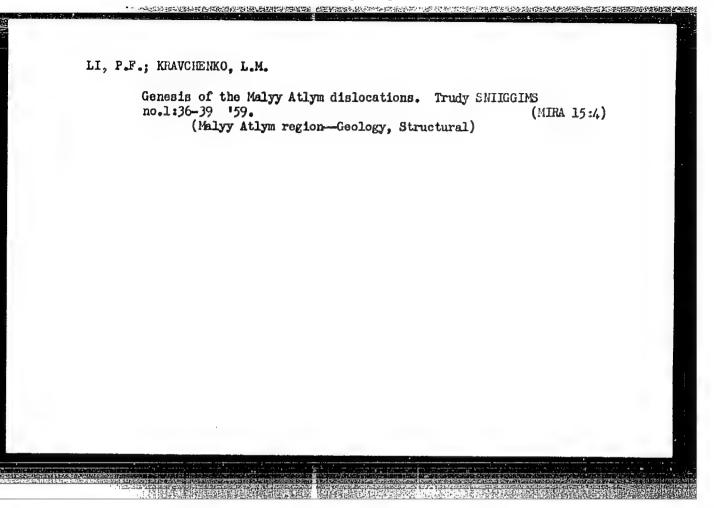
ACCESSION NR: AP4046171

2

cold is 15.7 kg/mm2, and the maximum peeling strength is 21.4 kg/mm2. The effect of prolonged heat treatment on the mechanical and plastic properties of the clad steel was also investigated, showing that repeated heating to 10000 does not decrease the plasticity. Bending tests were made in the cold and over a temperature range of 100-1000C on samples cut transversely to the casting direction. The samples were bent to 180° by stamps with a bending radius of 2--16 mm. The minimum permissible bending radii were determined on both samples clad from outside and samples clad from inside. Drawing of the clad steel was investigated by punching spherical cup-like samples with a diameter of 200 mm in the cold on a hydraulic press under a pressure of 200 tons, from both one-place and welded (twopiece) ingots. No defects were found in the castings, and the bonding strength of the two layers remained unchanged. The degree of deformation increased from the spherical bottom part toward the edge and reached 25.7%. It was established that drawing of St.3-OKh23N28M3D3T clad steel can be accomplished in the cold from either one-piece or welded ingots. The clad steel was then cut with a guillotine cutter; cutting on the cladding layer produced no peeling, but after cutting, the edges had to be treated of Rolling had to be carried out in the cold. "The metallographic tests were carried out under the direction of A. P. Akshentseva." Orig. art. has: 4 figures and I table."

Card 2/3

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KORNETEVA, V.G.; AMSIMOV, V.V.; KRAVCHENKO, L.M.

Combined oil and gas prospecting method to be applied in the western part of the West Siberian Plain. Trudy VNIGRI no.1401354-386 59. (MIRA 13:6)

(West Siberian Plain—Petroleum geology)

(West Siberian Plain—Gas, Natural—Geology)

KKHICCHEKKE, L. M.

USSR/Cultivated Plants - Fruits and Berries.

M-5

Abs Jour

: Ref Zhur - Biol., No 3, 1958, 10974

Author

: Kravchenko, L.m.

Inst

Uman' Pedagogical Institute.

Title

: Particulars of the Vegetative Reproduction of Hybrid

Apple Seedlings.

Orig Pub

: Nauk. zap. Umans'k. ped. in-t, 1956, 3, 65-67

Abstract

: As a result of experiments on vegetative reproduction in hybrid apple seedlings it has been made clear that they behave differently. Some multiple well from root sprouts, others -- from stem cuttings. Some seedlings take root invariably when the roots are planted. This method of reproduction has great advantages for the selector since the

variety does not lose its valuable qualities.

Card 1/1

KKMICHERKU, C.M.

USSR/Cultivated Florts _ Fruits and Berries.

M-5

Abs Jour

: Ref Zhur - Biol., No 3, 1958, 10975

Author

: Kravchenko, L.M.

Inst

: Uman Pedagogical Institute.

Title

: The Influence of the Pollinator Variety on the Formation of Fruit Characteristics in Young Hybrid Apple Plants.

Orig Pub

: Nauk. zap. Umans'k ped. in-t, 1956, 3, 73-79

Abstract

: When pollinated with pollen of one variety, young hybrid apple plants give a lower percentage of fruit ovaries than when pollimated naturally. Different pollinator varieties give different percentages of ruit ovulation /zavyazyva-niye/. Parmen Zimnyy Zolotoy /Parmen Colden Winter/ gave the best results. The characteristics are heightened and intensified by repeated pollination with the same variety during the first years of the hybrid's fruit production.

Card 1/2

3

USSR/Cultivated Plants - Fruits and Berries.

M-5

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10975

Under the influence of old pollinator varieties the young hybrid apple plant's characteristics develop according to the characteristics of the pollinator varieties (shape, teste, flowering dates). These characteristics are preserved through subsequent vegetative reproduction. The old pollinator varieties can be grown as mentors for the formation of new hyorid apple sorts, in addition to other training methods.

Card 2/2

KRAYCHMNKO, L.M., kandidat sel'skokhozyaystvennykh nauk.

Effect of mentors on speeding up the fruiting of hybrid apple seedlings.

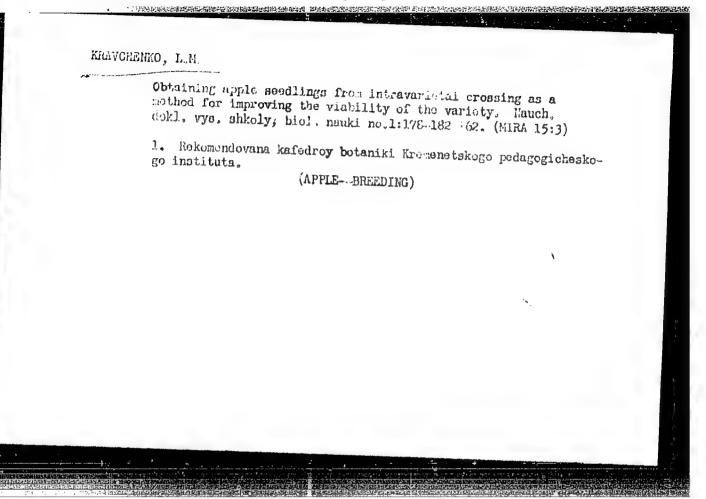
Agrobiologiia no.1:123-126 Ja-F '57.

1. Umanskiy pedagogicheskiy institut.

(Apple breeding) (Grafting)

Changes in the physiologicomorphological characters of hybrid apple seedlings induced by the mentor effect. Nauch.dokl.vys.
shkoly; biol.mauki no.1:187-193 '59. (MIRA 12:5)

1. Rekomendovana kafedroy botaniki Iremenetskogo gosudarstvennogo pedagogicheskogo instituta.
(APPLE BREEDING)



MIZINOV, H.V.: KRAVCHENKO, L.M.; DYADYUK, N.F.; CHCHERBININ, V.S.

Prospects for finding oil and get in the continuation part of the Mest Siberian Plain in connection with the opening of the Lenin (Karabash) oil field. Neftogaz.gaol. 1 geofiz. no.19-14, (MIRA 18:5)

1. Tyumenskaya kompleksnaya geologorazvedochnaya ekspeditsiya Tyumenskogo territorial'nogo geologicheskogo upravleniya.

ROMANOV, Arnol'd Konstantinovich; KRAVCHENKO, L.S., red.; YELISTRATOVA, Ye.M., tekhn. red.

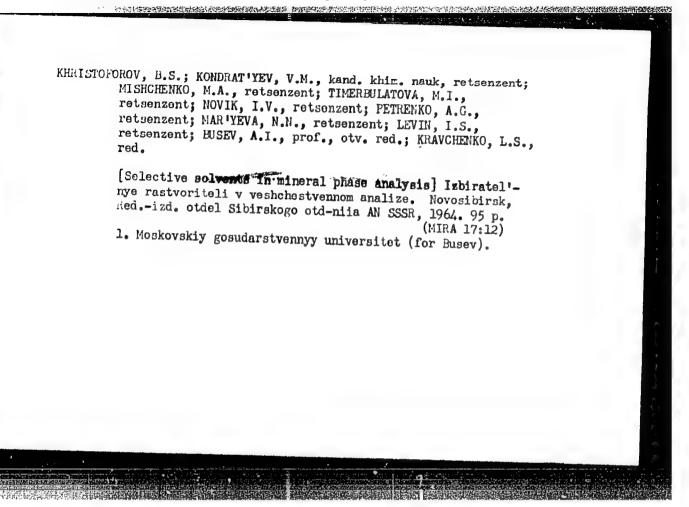
[Ferrite cores with rectangular hysteresis loops and their applications] Ferritovye serdechniki s priamougol'noi petlei gisterezisa i ikh primenenie. Novosibirsk, Izd-vo Sibirskogo otd-niia AN SSSR, 1963. 84 p. (MIRA 17:2)

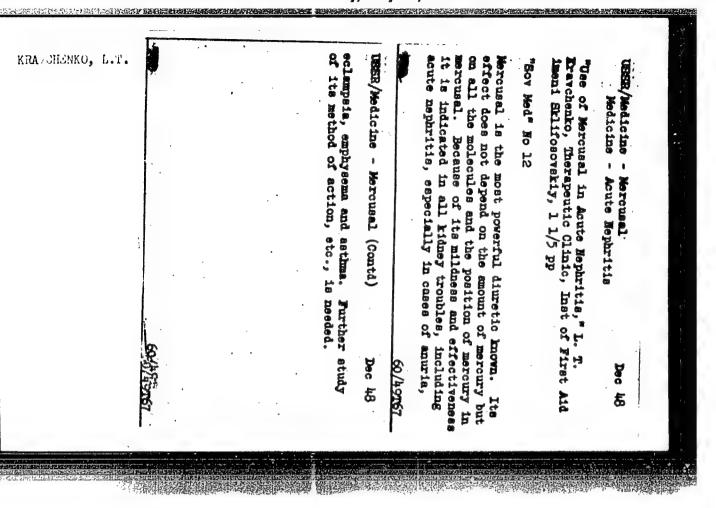
LOGVINENKO, A.T., kand. tokhn. nauk, otv. red.; Kaavenerko, I..., red.

[Refractory aluminosilicate resources in the Kuznetsk Basin] Aliumosilikatnoe ogneupornoe syrle Kuzlassa.

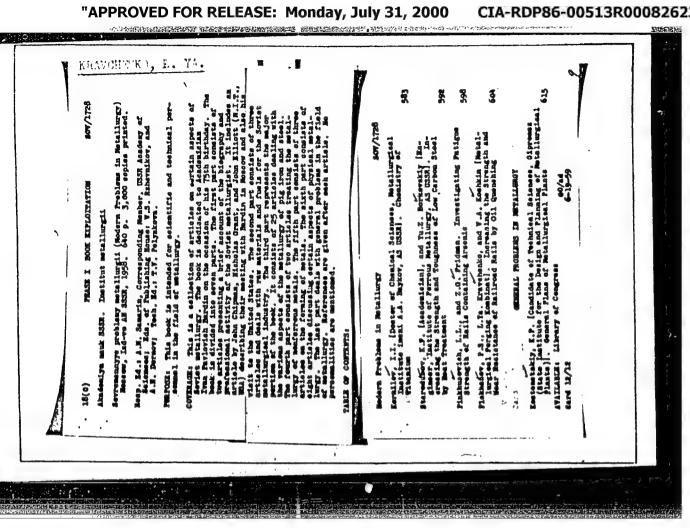
Novosibirsk, Red.-izd.otdel Sibirskogo otd-nin Al. SEER, 1964. 111 p. (MHA 18:1)

1. Akademiya nauk SSSR. Sibirskoye otdeleriye. Khimize-metallurgicheskiy institut.





CIA-RDP86-00513R000826230



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CIA-RDP86-00513R0008262300

SKOROKHODOV, N.Ya., dotsent; CHRIYSHEV, N.A., kand.tekhn.nauk;
ZAYKOV, M.A., dotsent; FROLOV, N.P., inzh.; KOROLEV, A.S.,
inzh.; KRAVCHENKO, L.Ya., inzh.; SKOROKHODOVA, V.F., inzh.;
ARAKUMOV, V.A., dotsent [deceased]; Kaftanov, M.P., inzh.

Investigating conditions of rolling plain and shaped
sections on a medium-shape rolling mill. Trudy NTO
Chern.met. 15:24-55 '59. (MIRA 13:7)
(Rolling mills)

KRAVCHENKO, L.Ya.; KOHYZEV, V.K.

Ways to save metal. Metallurg 7 no.4:26-27 Ap '62.

(MIRA 15:3)

1. Glavnyy prokatchik Kuznetskogo metallurgicheskogo kombinata (for Kravchenko). 2. Nachal'nik prokatnoy laboratorii Kuznetskogo metallurgicheskogo kombinata (for Kobyzev).

(Novokuznetsk—Rolling (Metalwork))

SHAMOVEKIY, E.Kh.; ZYKOV, A.D.; KAFTANOVA, Z.K.; KRAVCHENKO, L.Ya.; FROLOV, N.P.; ZHURAVKIN, Ye.A.; GORBATTUK, V.L.

Mechanizing the flame scarfing of blooms. Metallurg 7 no.8:24-27 Ag 162. (MIRA 15:9)

THE THE PROPERTY OF THE PROPER

Sibirskiy metallurgicheskiy institut i Kuznetskiy metallurgicheskiy kombinat.
(Steel ingots) (Metal cleaning)

VYXOO, M.S.; AMANCHEMEO, L.Z.

Examples of the forecasting of local erosion at installations and Its verification on the basis of an operational experiment. Vop. gift. no. 12:29-48 *163. (MIRA 17:5)

1. Chlen-korrespondent in UzSER for Vyzgo).

KRAVCENKO, Mihajlo, ing. (Zagreb, Rapska 27); FINCERHUT, Leo. (Zagreb, Prilaz JNA 18)

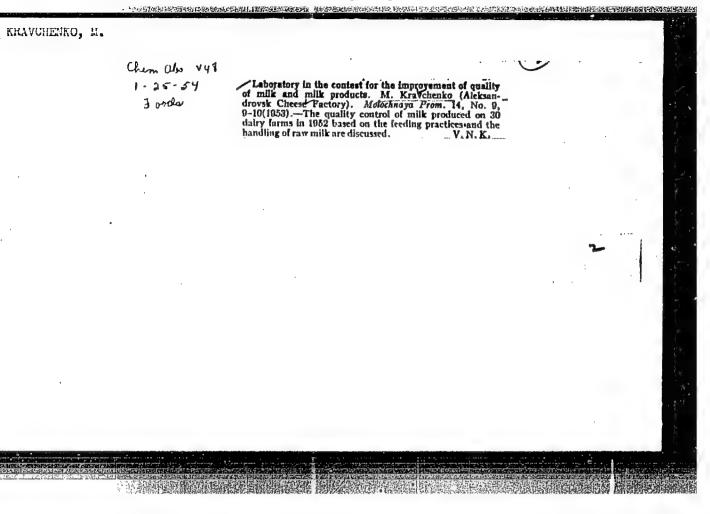
On grouting under pressure of hydraulic tunnels. Tehnika Jug 17 no.4:650-657 Ap '62.

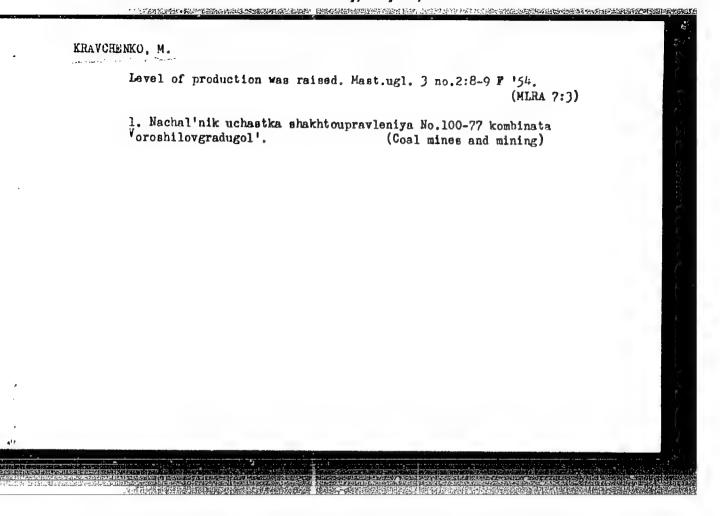
1. Referent operative u Odjelu za injekcione radove Poduzeca "Elektrosond" iz Zagreba (for Fingerhut).

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CIA-RDP86-00513R000826230





14(3)

SOV/176-58-7-13/17

AUTHOR:

Kravchenko, M., Guards Lieutenant Colonel

TITLE:

A Set for Enlarging and Demarking Passages in the Minefields. (Komplekt dlya ushireniya i oboznacheniya

prokhodov v minnykh polyakh)

PERIODICAL:

Voyenno-inzhenernyy zhurnal, 1958, Nr 7, pp 38-39 (USSR)

ABSTRACT:

The author describes the construction and operation a set for enlarging and demarking passages in the minefields. It was suggested by Captain Leonov at the unit where officer Barinov is a military engineer. The set consists of: 24 links UZ-2; 24 supports to them; a bobbin with 110 m.of wire for 24 detonators; another bobbin with a trunkline of 200 m. at explorer; 6

bobbin with a trunkline of 200 m, an explorer; 6 pointers marked "Passage"; 2 bobbins with cords of 70 m each and 12 supports, painted red-black, to hold the cords. Two sappers working under a commander can do the job in 13-16 minutes. The weight of the set

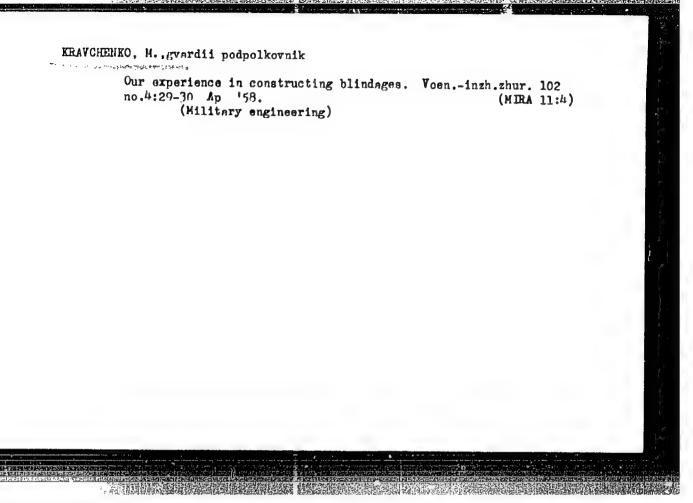
Card 1/2

SOV/176-58-7-13/17

A Set for Enlarging and Demarking Passages in the Minefields.

is 250 kg, and one set widens a passage of 3-4 m to a depth of 50 m. It can also be used for blowing up small bridges. There is 1 photograph.

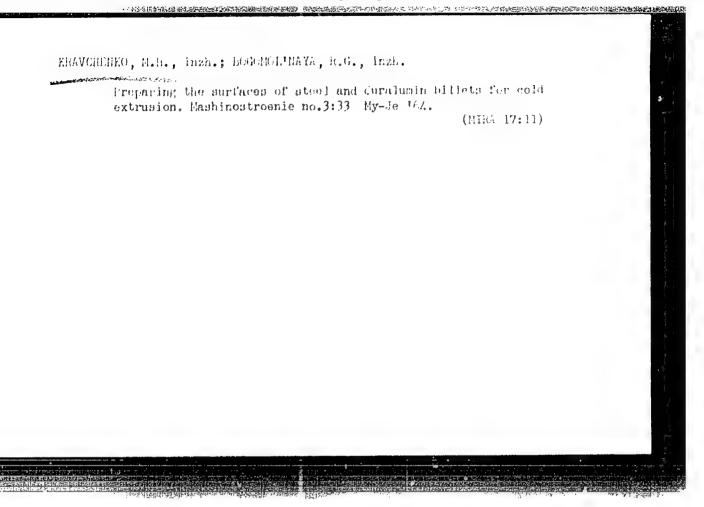
Card 2/2



PUSTOVAIOV, V.I.; KRAVCHENKO, M.B.

Painting bicycle parts and units by the method of spraying paint in electric fields. Avt. i trakt. prom. no.12:40-42 D '57. (MIRA 11:1)

1. Khar'kovskiy velosipednyy savod.
(Bicycles and tricycles--Painting)



AKSEL'ROD, S.M.; SOKHRANOV, N.N., nauchnyy red.; KRAVCHENKO, M.D. red.; BORUSHKO, T.I., red.izd-va; SHMAKOVA, T.M., tekhn.

> [High-frequency methods for studying boreholes; induction and dielectric logging] Vysokochastotnye metody isaledovaniia skvazhin (induktsionnyi i dielektricheskii karotazh). Moskva. Gosgeoltekhizdat, 1962. 31 p. (MIRA 16:2) (Oil well logging, Electric)

VESELOV, K.Ye.; VASIL'YEVA, I.L.; KRAVCHENKO, M.D., red.; BORUSHKO, T.I., red.izd-va; SHMAKOVA, T.M., tekhn. red.

[KVG-IM gravimeter and its working principles]Gravimetr KVG-IM, printsip ustroistva i rabota s nim. Moskva, Gosgeoltekhizdat, 1962. 32.p. (MIRA 16:2)

(Gravimeter (Geophysical instrument))

NIKITSKIY, V.Ye.; BASKAKOV, N.A.; FEDYK, V.I., nauchn. red.; KRAVCHENKO, M.D., red.; IVANOVA, A.G., tekhn. red.

[Development of aeromagnetic prospecting for minerals in the U.S.S.R.] Razvitie aeromagnitnoi razvedki poleznykh iskopaemykh v SSSR. Moskva, M-vo geologii i okhrany nedr SSSR, 1962. 33 p. (MIRA 17:4)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262300

TTAIRI, K.F.; COLIZDRA, C.Ya.; KRAVCHERKO, K.F., red.; LITYDEEKO, O.K., nauchm. red.

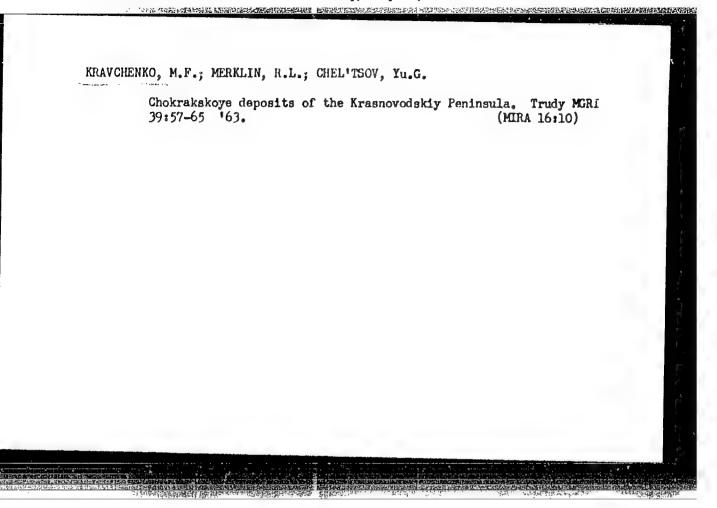
[Briof review of present—day methods for weakening the regional background lovel of gravitation and magnetic fields] Kratkii obzor sovremennykh metodov oslablenila regional'nogo fona gravitationmogo i magnitnogo polet.

Koskva, Gos.geologich. kom-t SESR, 1963. 49 p.

(NIRA 17:7)

ARKHIPOV, A.Ya.; ALTAYEVA, N.V.; BAYBULATOVA, Z.K.; VISKOVSKIY, Yu.A.; GOLENKOVA, N.P.; KRAVCHENKO, M.F.; KUPRIN, P.N.; LEVIN, A.I.; POL'STER, L.A.; SEMOV, V.N.; SYRNEV, I.P.; USHKO, K.A.; SHOLOKHOV, V.V.; Prinimali uchastiye: RODIONOVA, M.K.; CHEL'TSOV, Yu.G.; KUZNETSOV, Yu.Ya., kand. geograf. nauk, nauchnyy red.

[Geology and oil and gas potentials of the south of the U.S.S.R.; Kara-Bogaz-Gol (Gulf) region (eastern part of the Middle Caspian oil- and gas-bearing basin).] Geologiia i neftegazonosnost' iuga SSSR; Prikarabozaz'e (vostochnaia chast' Srednekaspiiskogo neftegazonosnogo basseina). Leningrad, Nedra, 1964. 300 p. (Trudy Nauchno-issledovatel'skoy laboratorii geologicheskikh kriteriyev otsenki perspektiv neftegazonosnosti no.12).



DIKENSHTEYN, G.Kh.; KUTUZOVA, V.V.; MASHRYKOV, K.K.; BABAYEV, A.G.;
POL'STER, L.A.; YUFEREV, R.F.; SHISHOVA, A.I.; BAREYEV,
R.A.; MAKAROVA, L.N.; MURADOV, K.; FYAHOVSKAYA, I.A.;
SEMOV, V.N.; SIROTINA, Ye.A.; TURKINA, I.S.; FEL'LMAN,
S.L.; KHON, A.V.; KUNITSKAYA, T.N.; GOLENKOVA, N.P.;
ROSHINA, V.M.; FARTUKOV, M.M.; SHCHUTSKAYA, Ye.K.;
ALTAYEVA, N.V.; BYKADOROV, V.A.; KOTOVA, M.S.; SMIRNOV,
L.M.; IBRAGIMOV, M.S.; KRAVCHENKO, M.F.; MARKOVA, L.P.;
ROZYYEVA, T.R.; UZAKOV, O.; SLAVIN, P.S.; NIKITINA, Ye.A.;
MILOGRADOVA, M.V.; BARTASHEVICH, O.V.; STAROBINETS, I.S.;
KARIMOV, A.K.

[Splicing of the wires of overhead power transmission lines] Soedinenie provodov vozdushnykh linii elektroperedachi. Moskva, Energiia, 1964. 69 p. (Biblioteka elektromentera, no.132) (MIRA 17:9)

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262300

MENDELEYEV, Dmitriy Ivanovich; DOBROTIN, R.B., kand.khim.nauk; KRAYCHNNKO, M.G. [translator]; KUPRIYANOVA, V.R. [translator]; STOROWKIN, A.V., prof., otv.red.; ZAYCHIK, N.K., red.izd-va; BLEYKH, E.Yu., tekhn. red.

[Scientific archives. Solutions] Nauchnyi arkhiv. Rastvory.
Moskva, Izd-vo Akad.nauk SSSR, 1960. 179 p. (MIRA 13:8)
(Solution (Chemistry))

KRAVCHENKO, Aleksandr Ignat'yevich, inzh.; KHAVCHENKO, Marina Isnat'yevna, ordinator

Use of a digital computer in solving a problem on the cognition of a logical image described by discrete information. Izv. vys. ucheb. zav.; elektromekh. 8 no.4:472-473 **165.

(MIRA 18:5)

1. Nachal'nik laboratorii perspektivnykh razrahotok Vsescyuznogo nauchno-issledovatel'skogo i proyektno-konstruktorskogo instituta elektrovozostroyeniya (for Kravchenko, A.I.). 2. Klinika nervnykh bolezney i neyrokhirurgii Rostovskogo meditsinskogo instituta (for Kravchenko, M.I.).

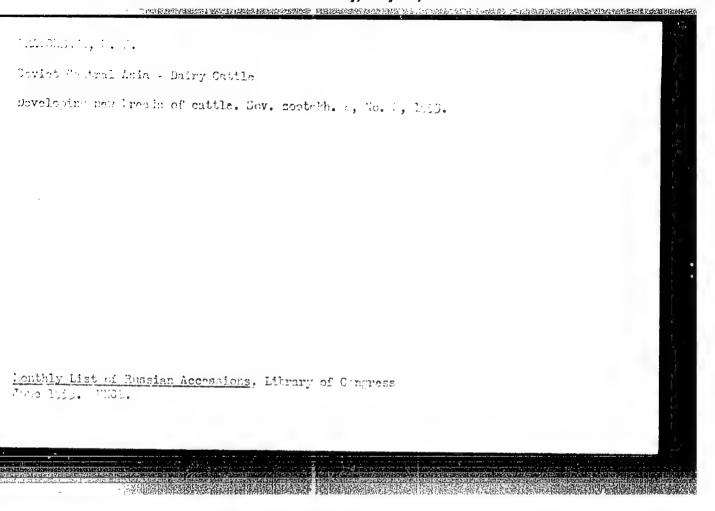
KRAVCHENKO, M. K., GCEDINA, M.

Vowels

New method of treating kymographic curves for making a graph of the movement of basic vowel tones. Vest. Len. un. 6, No.8, 1951.

9. Monthly List of Russian Accessions, Library of Congress, ______1953. Unclassified.

1. 2. 4. 7.	KRAVCHENEO, M. K. USCR (600) Kemerovo Province - Celves Controlled rearing of celves on Kemerovo Province state ferms. Sots. zhiv. No 2 1053	
9.	Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.	



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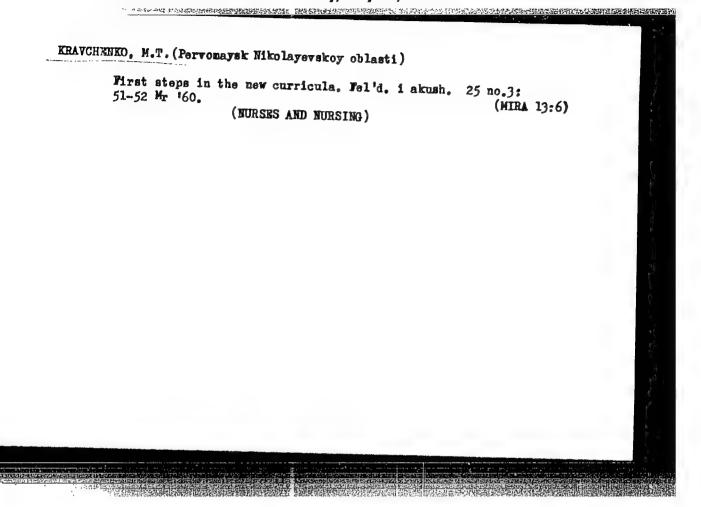
KRAVCHENKO, M.L., kand. biol. nauk

Producing the winter forms of durum wheat by crossing durum wheat with the rye Secale sereale viride variety. Agrobiologiia no.4:520-527 Jl-Ag '65. (MIRA 18:11)

1. Rovenskaya gosudarstvennaya sel'skokhozyaystvennaya opytnaya stantsiya, Rovenskaya oblast', selo Shubkovo.

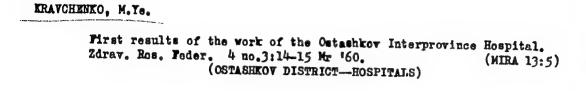
Cytoanatomical characteristics of tissue union in cereal embryos transplanted on dry grain. Zhur. ob. biol. 21 no.5:361-367 3-0 (MIRA 13:9)

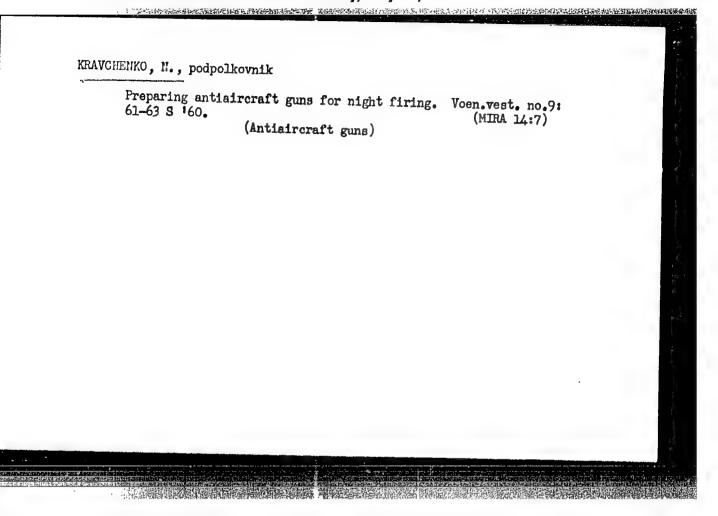
1. State Experimental Agricultural Station, Cherkassk. (GRAFTING) (GRAIN)

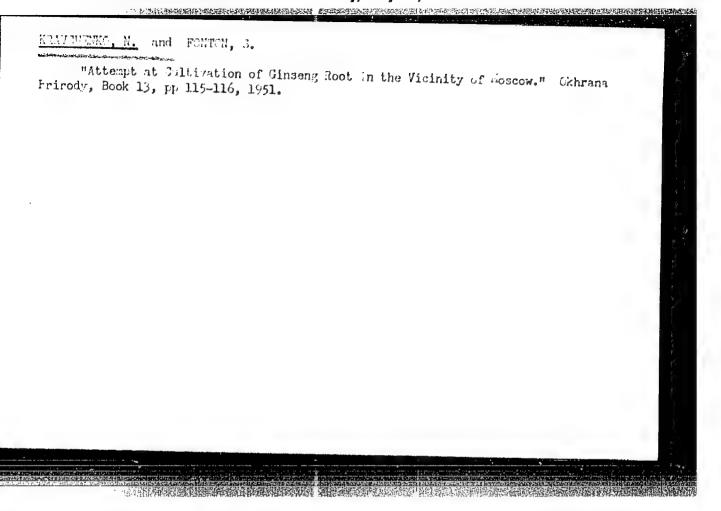


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Strangulation of a small intestinal loop in the umbilical ring of a newborn. Khirurgiia 33 no.2:112-113 F '57. (MIRA 10:6)

1. Iz Zaymishchenskoy rayonnoy bol'nitsy Brusovskogo rayona
Kalininskoy oblasti.
(HERNIA, UMBILICAL, in inf. and child
in newborn (Rus))
(IMPART, HEWBORN, dis.
hernia, umbilical (Rus))
```







KAVERZNEVA, Ye.D.; KRAVCHENKO, N.A.; KLEOPINA, G.V.

Nature of the enzymatic activity of lysozyme. Izv.AN SSSR Otd. khim.nauk no.4:729 Ap 161. (MIRA 14:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Lysozyme)

KRAVCHENKO, N.A.; KLEOPINA, G.V.; KAVERZNEVA, Ye.D.

Study of the catalytically active centers of lysozyme. Dokl.
AN SSSR 144 no.1:118-121 My 162. (MIRA 15:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. Predstavleno akademikom B.A.Kazanskim.

(Lysozyme) (Catalysis)

KKAVEHENKE, N.A.

PHASE I BOOK EXPLOITATION

SOV/4511

Moscow. Tsentral'nyy institut prognozov

Voprosy gidrologii (Problems in Hydrology) Moscow, Gidrometeoizdat (Otd-niye) 1959. 98 p. (Series: Its: Trudy, vyp. 94) 800 copies printed.

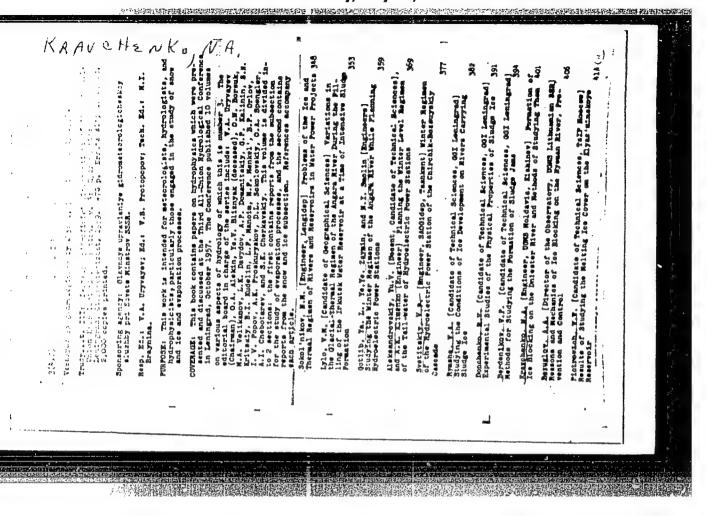
Sponsoring Agencies: Tsentral'nyy institut prognozov; Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR.

Ed. (Title page): N.Ya. Podvishenskaya; Ed. (Inside book): V.S. Kornilenko; Tech. Ed.: T.Ye. Zemtsova.

PURPOSE: This publication is intended for hydrological forecasters in field offices of the Hydrometeorological Service. It will also be of interest to scientific research workers.

COVERAGE: This issue of the Transactions of the Central Institute of Weather Fore-casting contains articles dealing with problems in hydrological forecasting. Individual articles discuss forecasting of snowmelt runoff, forecasting on the basis of groundwater, flood runoff and maximum discharge forecasting, etc. Evaluation of forecasting methods is given and their accuracy is analyzed. No personalities are Gard 1/3

SOV/4511 Problems in Hydrology mentioned. References follow each article. TABLE OF CONTENTS: Kravchenko, N.A. From the Experience of Supplying the Dubossary Hydroelectric 3 Power Plant With Hydrological Forecasts Salazanov, V.V. Estimating the Meltwater Runoff Losses Through Seepage During 9 the Spring Flood Period Lebedeva, N.D. Calculation of Snowmelt and a Method for Short-Range Forecasting of the Date of Meximum Flood Level on the Kama River 15 Rozova, A.P. Methods for Long-Range Forecasting of Runoff and Maximum 34 Discharge of Floods on the Rivers of the Upper Volga Basin Kalinin, G.P., and T.T. Makarova. Investigation of Some Problems of Spring 37 Flood Runoff Card-2/3__



VOYNICH, Ya.L., inzh.; KRAVCHENKO, N.A., inzh.

Use of a heat resistant E1765 alloy for bonding components.
Energomashinostroenie 8 no.10:37 0 '62. (MIRA 15:11)

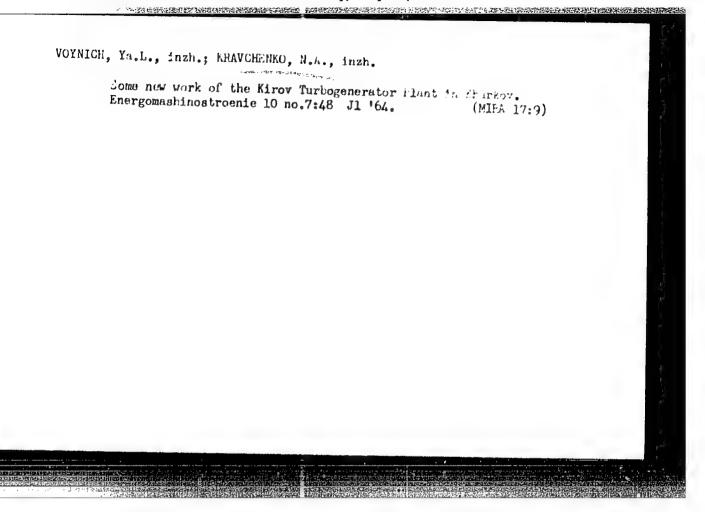
(Turbines)

KRAVCHENKO, N.A., inzh.; VOYNICH, Ya.L., inzh.

Uso of a natural gas torch for heating and localized thermal treatment of components in the welding of turbines.

Energomashinostroenie 9 no.5:34-35 My *63. (MIRA 16:7)

(Turbines--Welding)



KRAVCHENKO, N. A.

"Study of the Synthesis of Bets (Alpha-Naphthyl)-Beta-Alanine and Some of Its Changes." Sub 23 May 51, Moscow Order of Lenin Chemico-technological Instituent D. I. Mendeleyev.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

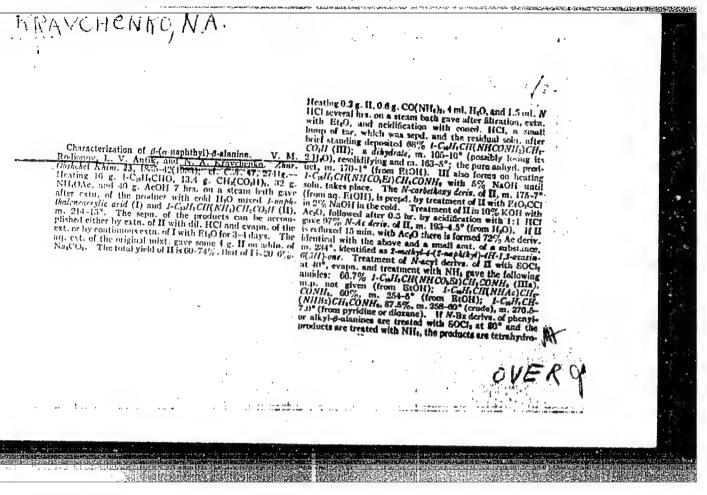
Amino Acids

Froduction and characteristics of B-(a-naphtyl)-B-aminographonic acid. Dokl. AN SSTR E2
No. 2, 1952.

SO: Monthly List of Russian Accessions, Library of Congress, June

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262300

2 195**%, U**ncl.



pyrimidines. If gave a tar under such conditions and this yielded some I amide. However when 4.2 g. of the N-Bg deriv. (IV) of II and 9 g. SOCIs in dry C4Is were gently reduced 4 hrs., the mixt. evapd. in varse, the residue extd. with EtO, and the ext. satd. with NIIs with ke cooling, there was formed a ppt. which was washed with BtO and feet CHCIs. The insol. residue was washed with Ho and recrystd. from EtOH yielding 0.7 g. I-Call.CII(MHs)CHz-COMIs (V), m. 277°; evapn. of EtO-CHCIs ext. gave 13%.

COMIs (V), m. 277°; evapn. of EtO-CHCIs ext. gave 13%.

in. 187-5° (from CHCIs). A very low yield of tetrahydro-pyrimidine. Journal to evidence of transacylation was observed. Heating I-Call.CII(MHA)CHz-CHz-COMIs (VI) with AcO gave 80%.

in. 145-9° (from EtOI). V (2 g.) added at -7' to 20 ml. 15% NaOII and 2.4 g. Br, stirred 2 hrs. at room temp... 135-3-2.5-2.0° (from EtOII); some Broll was reduced 20 min. to 78-80° gave 0.35 g. crude product which yielded 0.22 g. pure 4-(I-naphthyl)midacoiddon (VII), m. 221-5-2.0° (from EtOII); some Broll was reduced 50 min. to 78-80° gave 0.35 g. crude product which yielded 0.22 g. pure 4-(I-naphthyl)midacoiddon (VII), m. 221-5-2.0° (from EtOII); some Broll was reduced 50 min. to 78-80° gave 0.35 g. roude product which yielded 0.22 g. pure 4-(I-naphthyl)midacoiddon (VII), m. 221-5-2.0° (from EtOII); some Broll was reduced 50 min. to 78-80° gave 0.35 g. erude product warned slowly to 10-00°, and finally to 80°, gave after coorered. VI (2.34 g.) defed at -12° to 20 ml. 15% NaOII with a to 5 ml. 15% NaOII and 1.25 g. crude, or 0.71 g. pure VII. Adda. of 0.3 g. IIIa to 5 ml. 15% NaOII and 0.60° gave some 0.17 g. VII. VII abs. EtOH treated with drs HCl at 60-70° 4 hrs. then said. with HCl at 0° gave after 24 hrs. 89.3% IV Et ester.

5.3400

77076 SOV/62-59-12-20/43

AUTHORS:

Nazarov, I. N., Kravchenko, N. A., Klabunovskiy, Ye. I.

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TITLE:

Concerning the Catalytic Synthesis of Isoprene, Based on Gaseous Hydrocarbons. Communication 1. The Study of

Possibility Isoprene Synthesis from Acetylene

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh

nauk, 1959, Nr 12, pp 2171-2176 (USSR)

ABSTRACT:

Several catalysts were tested for the condensation of acetylene with propylene at atmospheric pressure. Pure catalysts without support were inactive. The following supported catalysts were used. (1) Fe_2O_3 + $\text{MoO}_3/\text{SiO}_2$. Silica gel was impregnated with an aqueous solution of ammonium molybdate. The excess solution was removed. Silica gel was dried at 110° and was boiled in a 5% solution of Fe(NO₃)₃, for 10 minutes, dried and calcinated

at 550° . The catalysts 2-7 were prepared similarly. (2) $\cos + MoO_3/SiO_2$. (3) $SnO + MoO_3/SiO_2$. (4) $TiO + MoO_3/SiO_2$.

Card 1/3

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Concerning the Catalytic Synthesis of Isoprene, Based on Gaseous Hydrocarbons. Communication 1. The Study of Possibility Isoprene Synthesis from Acetylene

77076 **SOV**/62**-**59**-**12**-**20/43

(5) CuO + MoO₃/SiO₂. (6) MgO + MoO₃/SiO₂. (7) CaO + + MoO₃/SiO₂. The catalysts: (8) MoO₃/ASC, (10) WO₃/ASC, (11) TiO + WO₃/ASC, (12) WO₃ + TiO/ASC were prepared with aluminum-silicate catalyst (ASC). Beside the above catalysts, (9) WO₃/SiO₂, (13) CaO/SiO₂, and ASC were also tested. Condensation of acetylene with propylene over above catalysts was carried out at 350-450° forming mostely aromatic hydrocarbons in 3.6 to 63.6% yield (benzene, toluene, o-, m-, and p-xylenes). The formation of isoprene and piperylene was not observed. A. E. Agronomov took part in this work. There are 3 tables; and 8 references, 2 German, 2 French, 3 U.S., 1 U.K., The 4 U.S. and U.K. references are: C. H. Holder, N. J. Crauford, U.S. Pat. 2388916 (13, 11, 1945). B. W. Ipatiev, II. Pines, U.S. Pat. 2410445 (25, 11, 1942).

Card 2/3

Concerning the Catalytic Synthesis of Isoprene, Based on Gaseous Hydrocarbons. Communication 1. The Study of Possibility Isoprene Synthesis from Acetylene

77076 SOV/62-59-12-20/43

H. Plauson, J. A. Vielle, U.K. Pat 156116 (30, 12, 1920); Chem. Abstrs. 15, 1727 (1921).

Zelinskiy Institute of Organic Chemistry, Academy of Sciences, USSR (Institut organicheskoy khimii imeni N. D.

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May 7, 1958 SUBMITTED:

Card 3/3

ASSOCIATION: